

In the Specification:

Please amend the specification as follows:

Please replace the paragraph beginning on page 1, line 8, with the following rewritten paragraph:

--The present invention relates to an ~~inductance device~~ coil driving system, an information storage apparatus, and an ~~inductance device~~ coil driving method, and, in particular, the present invention relates to an ~~inductance device~~ coil driving system, an information storage apparatus, and an ~~inductance device~~ coil driving method for supplying a pulse-shaped electric current according to a current instruction value to an ~~inductance device~~ coil especially so as to drive the ~~inductance device~~ coil of the information storage apparatus.--

Please replace the paragraph beginning on page 9, line 30, with the following rewritten paragraph:

--The present invention has been made in consideration of the above-mentioned points, and an object of the present invention is to provide an ~~inductance device~~ coil current control circuit, an information storage apparatus, and an ~~inductance device~~ coil current control method for driving a bias magnetic field application device employing an ~~inductance device~~ coil in an information storage apparatus appropriately even for a small electric current instruction value.--

Please replace the paragraph beginning on page 10, line 3, with the following rewritten paragraph:

--~~An inductance device~~A coil driving circuit according to the present invention which supplies a predetermined electric current to ~~an inductance device~~a coil by changing a pulse width of a voltage applied to the ~~inductance device~~coil according to a current instruction value so as to drive the ~~inductance device~~coil. This circuit includes:--

Please replace the paragraph beginning on page 10, line 10, with the following rewritten paragraph:

--a current detection part which detects an electric current which flows through the ~~inductance device~~coil;--

Please replace the paragraph beginning on page 10, line 16, with the following rewritten paragraph:

--a current control part which turns on/off the voltage applied to the ~~inductance device~~coil according to a comparison result of the comparison part; and--

Please replace the paragraph beginning on page 10, line 20, with the following rewritten paragraph:

--an off time control part which controls an off time for which application of the voltage to the ~~inductance device~~ coil is interrupted, according to the current instruction value.--

Please replace the paragraph beginning on page 10, line 37, with the following rewritten paragraph:

--According to the present invention, when the bias current instruction value is small, the off time is set so that the off time becomes longer. In contrast thereto, when the bias current instruction value is larger, the off time is set so that the off time becomes shorter.

Thereby, the linearity of actual bias electric current actually flowing through the ~~inductance device~~ coil with respect to the bias current instruction value can be improved, as a result of positive reduction in the current for a small current value occasion being able to be achieved.

Furthermore, problematically ~~much~~ reduction in the electric current ~~due to~~ due to the off time at a time a large electric current flows can be prevented, and, thereby, the ripple noise can be effectively reduced.--

Please replace the paragraph beginning on page 14, line 6, with the following rewritten paragraph:

--A power supply voltage  $V_{cc}$  is applied to the power supply terminal  $T_v$ . Between the positive terminal  $T_p$  and negative terminal  $T_n$ , the coil (~~inductance device~~) 35a of the bias magnetic field application device 35 mentioned above is connected as shown in

FIG. 6. A current detection resistance  $R_s$  is connected between the current detection terminal  $T_s$  and the ground.--

Please replace the paragraph beginning on page 26, line 21, with the following rewritten paragraph:

--Moreover, although the present embodiment is for a magneto-optical disk device, it is possible to apply the present invention not only to a magneto-optical disk device but also to another kind of device in which an electric current supplied to an inductance device a coil or the like can be changed by the PWM form, widely.--